Computer Science (Faculty of Science)

See the complete requirements (https://www.mcgill.ca/undergraduate-admissions/apply/requirements)

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Overview

Computer science is a stimulating, broad field of study that encompasses everything from theory to application. You can study diverse topics like software engineering, programming languages, robotics, compilers, databases, game design and development, operating systems, artificial intelligence, computational biology, computer vision, and the analysis of algorithms.

Pursuing an undergraduate degree in Computer Science will strengthen your analytical thinking and creative problem solving skills. You can explore subjects with a wide range of applications — from medicine to business and beyond.

Computer science is a field teeming with innovation. It plays a pivotal role in our economy, culture and personal lives. Did you know that the first internet search engine was created at McGill's School of Computer Science in 1987 by Alan Emtage, a McGill alumnus?

Careers

An undergraduate degree in Computer Science holds excellent job prospects. Computers and specialized software play a crucial role in business, science, and our personal lives. Many graduates choose to work in software development, consulting, research, and project management. Computer scientists are in demand across a wide range of fields, including business, engineering and medicine.

You can become a professional:

- Software developer
- Web developer
- Game developer
- Texture artist
- AI developer
- User experience designer

Courses

As a Computer Science student, you can take courses like:

- COMP 202. Foundations of Programming. (https://coursecatalogue.mcgill.ca/courses/comp-202/)
- COMP 303. Software Design. (https://coursecatalogue.mcgill.ca/courses/comp-303/)
- MATH 240. Discrete Structures. (https://coursecatalogue.mcgill.ca/courses/math-240/)
- COMP 360. Algorithm Design. (https://coursecatalogue.mcgill.ca/courses/comp-360/)

Faculty

Our faculty members conduct cutting-edge research on a wide range of topics, from understanding large-scale human behaviour on social media platforms, to developing new algorithms for use in robotics, healthcare and games.

- Joelle Pineau (https://www.cs.mcgill.ca/~jpineau/)
- Derek Ruths (http://derekruths.com/)

Learn more about Computer Science faculty (https://www.cs.mcgill.ca/people/faculty/)

Learn more about Computer Science course work (https://www.mcgill.ca/study/faculties/science/undergraduate/programs/bachelor-science-bsc-major-computer-science)

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Student experience

The School of Computer Science is an exceptional place to develop your passions and prepare for a fulfilling career after your degree. You can test out professional paths through paid internship years and industrial practicums, and network with industry experts at our annual Techfair. With hands-on experiences and guidance from seasoned professionals, you can craft the ideal curriculum to secure your dream job or prepare for specialized studies.

Possible minors

Minors are a great way to customize your academic experience. Many students use minors to pursue interests outside their major, while others choose minors to complement their degree.

Minors that complement this program:

- Musical applications of technology (https://www.mcgill.ca/undergraduate-admissions/node/841)
- Physics (https://www.mcgill.ca/undergraduate-admissions/node/767)
- Psychology (https://www.mcgill.ca/undergraduate-admissions/node/771)

Learn more about how majors and minors work (https://www.mcgill.ca/undergraduate-admissions/how-do-majors-and-minors-work)

Related majors

Discover these related majors:

- Computer Science & Biology (https://www.mcgill.ca/undergraduate-admissions/node/795)
- Mathematics & Computer Science (https://www.mcgill.ca/undergraduate-admissions/node/785)
- Physics & Computer Science (https://www.mcgill.ca/undergraduate-admissions/node/778)
- Software Engineering (https://www.mcgill.ca/undergraduate-admissions/node/766)

Ready to apply?

For this program, you'll need to apply to the **Faculty of Science** (https://www.mcgill.ca/science/undergraduate) in the **Physical, Earth, Math & Computer Sciences** group.

See the full eligibility information (https://www.mcgill.ca/undergraduate-admissions/apply/requirements) for more information about deadlines and required documents for your application.

Get ready to apply (https://www.mcgill.ca/undergraduate-admissions/apply)

(https://www.mcgill.ca)

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